

AMENDMENTS TO THE CLAIMS

1-30. (Cancelled)

31. (Currently Amended) A radio transmission system for a high-speed moving object, in which image data is transmitted between said high-speed moving object that moves along a predetermined path of movement and a control center that manages a condition of said high-speed moving object, said radio transmission system comprising:

a plurality of first base station-stations and a plurality of second base station-stations, said first and second base stations being installed alternately along the predetermined [[a]] path of movement of said high-speed moving object,

wherein each of said first base station-having-stations includes a first communication unit operable to transmit control data indicating a transmission timing over radio waves ~~wave~~ of a first frequency at predetermined time intervals, and to receive the image data transmitted from said high-speed moving object over radio waves ~~wave~~ of the first frequency and transmit the image data to said control center via a network, [[;]] and

wherein each said second base station-having-stations includes a second communication unit operable to transmit control data indicating a transmission timing over radio waves ~~wave~~ of a second frequency at predetermined time intervals, and to receive the image data transmitted from said high-speed moving object over radio waves ~~wave~~ of the second frequency and transmit the image data to said control center via the network,

wherein said high-speed moving object includes:

a plurality of at least one image capturing unit-units operable to capture image

data of the inside of a car in said high-speed moving object;

a first communication unit operable to transmit the image data captured by said image capturing unit over radio waves ~~wave~~ of the first frequency, when the control data is received over radio waves ~~wave~~ of the first frequency; and

a second communication unit operable to transmit the image data captured by said image capturing unit over radio waves ~~wave~~ of the second frequency, when the control data is received over radio waves ~~wave~~ of the second frequency, and

wherein said control center includes:

a communication unit operable to receive the image data transmitted from said first and second base stations via the network;

a selection unit operable to select one image data from a plurality of image data, when ~~there are, from~~ among the received image data, the plurality of image data ~~that~~ have been captured at the same time by the same one of said ~~identical~~ image capturing ~~unit at the same time~~ units; and

a display unit operable to display the received image data or the selected image data, for each of said image capturing ~~unit~~ units.

32. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 31,

wherein each of said image capturing ~~unit~~ units is operable to add time information to the captured image data indicating a time of the capturing ~~to the captured image data~~, and

wherein said selection unit is operable to determine whether or not the image data have

been captured at the same time by the same one of said ~~identical~~ image capturing ~~unit at the same time~~ units, based on the time information.

33. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 32,

wherein each of said image capturing ~~unit~~ units is further operable to add identification information to the captured image data for identifying said image capturing unit ~~to the captured image data~~, and

wherein said selection unit is operable to determine whether or not the image data has been captured at the same time by the same one of said identical image capturing ~~unit at the same time~~ units, based on the identification information and the time information.

34. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 31,

wherein each of said image capturing ~~unit~~ units is operable to add a sequence number to each of a plurality of predetermined ~~unit~~ units in the captured image data, and

wherein said selection unit is operable to determine whether or not the image data have been captured at the same time by the same one of said ~~identical~~ image capturing ~~unit at the same time~~ units, based on the sequence number.

35. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 34,

wherein each of said image capturing ~~unit-units~~ is further operable to add identification information to the captured image data for identifying said image capturing unit ~~to the captured image data~~, and

wherein said selection unit is operable to determine whether or not the image data have been captured at the same time by the same one of said ~~identical~~-image capturing unit ~~at the same time~~ units, based on the identification information and the sequence number.

36. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 31,

wherein said control center further includes an instruction unit operable to designate one of said image capturing ~~unit-units~~ by identification information for identifying said image capturing unit and to instruct said high-speed moving object to capture image data by said designated image capturing unit,

wherein said communication unit of said control center is operable to transmit the instruction including the identification information to said first and second base stations via the network,

wherein said first and second communication units of said first and second base stations are operable to add the identification information to the control data and then transmit the control data ~~added with~~ having the identification information added thereto, and

wherein said first and second communication units of said high-speed moving object are operable to determine the image data to be transmitted, based on the identification information added to the control data.

37. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 31,

wherein said first and second communication units of said high-speed moving object are operable to add error-correction data to the image data and ~~transmits~~ transmit the image data ~~added with~~ having the error-correction data added thereto, and

wherein said first and second communication units of said first and second base stations are operable to perform error correction for the image data using the error-correction data.

38. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 31,

wherein said first and second communication units of said high-speed moving object are operable to dispersedly arrange the image data per unit predetermined size and transmit the dispersedly arranged image data, and

wherein said first and second communication units of said first and second base stations are operable to re-arrange the dispersedly arranged image data into the original arrangement.

39. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 31,

wherein said control center further includes:

a position detection unit operable to detect a position of said high-speed moving ~~high-moving~~ object; and

a control unit operable to perform transmission instruction by instructing said first and second base stations to transmit the control data, based on the detected position of said high-speed moving object, and

wherein said first and second communication units of said first and second base stations are operable to transmit the control data according to the transmission instruction from said control center.

40. (Currently Amended) A radio transmission system for a high-speed moving object, in which data is transmitted between said high-speed moving object that moves along a predetermined path of movement and a control center that manages a condition of said high-speed moving object, said radio transmission system comprising:

a plurality of first base station-stations and a plurality of second base station-stations, said first and second base stations being installed alternately along the predetermined [[a]] path of movement of said high-speed moving object,

wherein each of said first base station-having-stations includes a first communication unit operable to transmit data to and receive data from said high-speed moving object over radio waves ~~wave~~ of a first frequency, and to transmit data to and receive data from said control center via a network₁ ~~[[;]] and~~

wherein each of said second base station-having-stations includes a second communication unit operable to transmit data to and receive data from said high-speed moving object over radio waves ~~wave~~ of a second frequency, and to transmit data to and receive data from said control center via the network,

wherein said high-speed moving object includes:

a first communication unit operable to transmit and receive data over radio waves
~~wave~~ of the first frequency;

a second communication unit operable to transmit and receive data over radio
waves ~~wave~~ of the second frequency;

a position detection unit operable to detect a running position of said high-speed
moving object; and

a control unit operable to control a characteristic at a time when said first and
second communication units transmit and receive the data, based on the detected running
position of said high-speed moving object, and

wherein said control center includes:

a communication unit operable to transmit the data to and receive the data from
said first and second base stations via the network; and

a selection unit operable to select one data from a plurality of data, when ~~there~~
~~are~~, from among the received data, the plurality of data ~~having~~ have the same information.

41. (Currently Amended) The radio transmission system for the high-speed moving
object according to Claim 40,

wherein said high-speed moving object further includes a variable attenuate unit operable
to adjust an output strength of the radio waves to be transmitted by said first and second
communication units, and

wherein said control unit is operable to determine the output strength of the radio waves

to be transmitted by said first and second communication units based on the detected position of said high-speed moving object, and to control said variable attenuate unit to adjust the output strength to be the determined output strength.

42. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 40,

wherein said control unit is operable to determine redundancy of error-correction data for the data based on the detected running position of said high-speed moving object, and to notify the determined redundancy to said first and second communication units of said high-speed moving object,

wherein said first and second communication units of said high-speed moving object are operable to add the redundancy and the error-correction data to the data and to transmit the data ~~added with~~ having the redundancy and the error-correction data added thereto, and

wherein said first and second communication units of said first and second base stations are operable to perform error correction for the data using the error-correction data.

43. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim ~~40~~ 41,

wherein said control center further includes a setting unit operable to transmit, to said high-speed moving object, a characteristic table in which the running position of said high-speed moving object corresponds to the ~~characteristic~~ output strength of the radio waves, and

wherein said control unit of said high-speed moving object is operable to ~~control the~~

~~characteristic at a time when said first and second communication units transmit the data~~
determine the output strength of the radio waves transmitted by said first and second
communication units, based on the detected running position of said high-speed moving object
and the characteristic table.

44. (Currently Amended) A radio transmission system for a high-speed moving object, in which data is transmitted between said high-speed moving object that moves along a predetermined path of movement and a control center that manages a condition of said high-speed moving object, said radio transmission system comprising:

a plurality of first base station-stations and a plurality of second base station-stations, said first and second base stations being installed alternately along the predetermined [[a]] path of movement of said high-speed moving object,

wherein each of said first base station-having stations includes a first communication unit operable to transmit data to and receive data from said high-speed moving object over radio waves ~~wave~~ of a first frequency, and to transmit data to and receive data from said control center via a network, [[;]] ~~and~~

wherein each of said second base station-having stations includes a second communication unit operable to transmit data to and receive data from said high-speed moving object over radio waves ~~wave~~ of a second frequency, and to transmit data to and receive data from said control center via the network,

wherein said high-speed moving object includes:

a first communication unit operable to transmit and receive data over radio waves

~~wave~~ of the first frequency;

a second communication unit operable to transmit and receive data over radio

~~waves~~ ~~wave~~ of the second frequency;

a measurement unit operable to measure a strength of the radio waves received from said first and second base stations; and

a control unit operable to control a characteristic at a time when said first and second communication units transmit and receive the data, based on the measured strength of the radio waves, and

wherein said control center includes:

a communication unit operable to transmit the data to and receive the data from said first and second base stations via the network; and

a selection unit operable to select one data from a plurality of data, when ~~there are~~, from among the received data, the plurality of data ~~having~~ have the same information.

45. (Currently Amended) A radio transmission system for a high-speed moving object, in which data is transmitted between said high-speed moving object that moves along a predetermined path of movement and a control center that manages a condition of said high-speed moving object, said radio transmission system comprising

a plurality of base stations arranged along the predetermined ~~[[a]]~~ path of movement of said high-speed moving object,

wherein each of said base ~~station~~ stations includes:

a first directional antenna operable to transmit and receive radio ~~waves~~ ~~wave~~ in a

particular direction, said first directional antenna being located at one end part in a longitudinal direction of a station platform where said base station is equipped and facing a first directional antenna of said high-speed moving object;

a second directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said second directional antenna being located at the other end part in the longitudinal direction of the station platform where said base station is equipped and facing a second directional antenna of said high-speed moving object; and

a communication unit which is connected to said first directional antenna and said second directional antenna of said base station, and operable to transmit control data indicating a transmission timing at predetermined time intervals via said first directional antenna of said base station over radio waves ~~wave~~ of a first frequency and via said second directional antenna of said base station over radio waves ~~wave~~ of a second frequency, and to receive data transmitted from said high-speed moving object over radio waves ~~wave~~ of the first frequency and radio waves ~~wave~~ of the second frequency and transmit the data to said control center via the network,

wherein said high-speed moving object includes:

a first communication unit operable to transmit and receive data over radio waves ~~wave~~ of the first frequency;

a second communication unit operable to transmit and receive data over radio waves ~~wave~~ of the second frequency;

said first directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said first directional antenna being connected to said first communication unit, being located at one end part in a moving direction of said high-speed moving object, and

facing outside; and

said second directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said second directional antenna being connected to said second communication unit, being located at the other end part in the moving direction of said high-speed moving object, and facing outside, and

wherein said control center includes:

a communication unit operable to transmit the data to and receive the data from said base ~~station~~ stations via the network; and

a selection unit operable to select one data from a plurality of data, when ~~there are~~, from among the received data, the plurality of data ~~having~~ have the same information.

46. (Currently Amended) A radio transmission system for a high-speed moving object, in which data is transmitted between said high-speed moving object that moves along a predetermined path of movement and a control center that manages a condition of said high-speed moving object, said radio transmission system comprising

a plurality of base stations arranged along the predetermined ~~[[a]]~~ path of movement of said high-speed moving object,

wherein each of said base ~~station~~ stations includes:

a first directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said first directional antenna being located at one end part in a longitudinal direction of a station platform where said base station is equipped and facing a first directional antenna of said high-speed moving object;

a second directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said second directional antenna being located at the other end part in the longitudinal direction of the station platform where said base station is equipped and facing a second directional antenna of said high-speed moving object;

a third directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said third directional antenna ~~being located at back on to said first directional antenna of said base station and~~ facing said second directional antenna of said high-speed moving object;

a fourth directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said fourth directional antenna ~~being located at back on to said second directional antenna of said base station and~~ facing said first directional antenna of said high-speed moving object;

a first communication unit which is connected to said first directional antenna and said third directional antenna of said base station, and operable to transmit control data indicating a transmission timing at predetermined time intervals via said first directional antenna of said base station over radio waves ~~wave~~ of a first frequency and via said third directional antenna of said base station over radio waves ~~wave~~ of a second frequency, and to receive data transmitted from said high-speed moving object over radio waves ~~wave~~ of the first frequency and radio waves ~~wave~~ of the second frequency and transmit the data to said control center via the network; and

a second communication unit which is connected to said second directional antenna and said fourth directional antenna of said base station and operable to transmit control

data indicating a transmission timing at predetermined time intervals via said second directional antenna of said base station over radio waves ~~wave~~ of the second frequency and via said fourth directional antenna of said base station over radio waves ~~wave~~ of the first frequency, in synchronization with said first communication unit in order to transmit the control data alternately with the control data transmitted by said first communication unit,

wherein said high-speed moving object includes:

a first communication unit operable to transmit and receive data over radio waves ~~wave~~ of the first frequency;

a second communication unit operable to transmit and receive data over radio waves ~~wave~~ of the second frequency;

said first directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said first directional antenna being connected to said first communication unit, being located at one end part in a moving direction of said high-speed moving object, and facing outside; and

said second directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said second directional antenna being connected to said second communication unit, being located at the other end part in the moving direction of said high-speed moving object, and facing outside, and

wherein said control center includes:

a communication unit operable to transmit the data to and receive the data from said ~~first and second~~ base stations via the network; and

a selection unit operable to select one data from a plurality of data when ~~there are~~,

from among the received data, the plurality of data ~~having~~ have the same information.

47. (Currently Amended) A radio transmission system for a high-speed moving object, in which data is transmitted between said high-speed moving object that moves along a predetermined path of movement and a control center that manages a condition of said high-speed moving object, said radio transmission system comprising

a plurality of first base station-stations and a plurality of second base station-stations, said first and second base stations being installed alternately along the predetermined [[a]] path of movement of said high-speed moving object,

wherein each of said first base ~~station-stations~~ includes:

a first directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said first directional antenna being located at one end part in a longitudinal direction of a station platform where said first base station is equipped and facing a first directional antenna of said high-speed moving object;

a second directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said second directional antenna being located at the other end part in the longitudinal direction of the station platform where said first base station is equipped and facing a second directional antenna of said high-speed moving object; and

a first communication unit which is connected to said first directional antenna and said second directional antenna of said first base station, and operable to transmit control data indicating a transmission timing at predetermined time intervals via said first directional antenna of said first base station over radio waves ~~wave~~ of a first frequency and via said second

directional antenna of said first base station over radio waves ~~wave~~ of a fourth frequency, and to receive data transmitted from said high-speed moving object over radio waves ~~wave~~ of the first frequency and radio waves ~~wave~~ of the fourth frequency and transmit the data to said control center via the network,

wherein each of said second base ~~station~~ stations includes:

a first directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said first directional antenna being located at one end part in a longitudinal direction of a station platform where said second base station is equipped and facing said first directional antenna of said high-speed moving object;

a second directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said second directional antenna being located at the other end part in the longitudinal direction of the station platform where said second base station is equipped and facing said second directional antenna of said high-speed moving object; and

a second communication unit which is connected to said first directional antenna and said second directional antenna of said second base station, and operable to transmit control data indicating a transmission timing at predetermined time intervals via said first directional antenna of said second base station over radio waves ~~wave~~ of a third frequency and via said second directional antenna of said second base station over radio waves ~~wave~~ of a second frequency, and to receive data transmitted from said high-speed moving object over radio waves ~~wave~~ of the third frequency and radio waves ~~wave~~ of the second frequency and transmit the data to said control center via the network,

wherein said high-speed moving object includes:

a first communication unit operable to transmit the data over radio waves ~~wave~~ of a corresponding frequency in the first frequency and the third frequency, when the control data is received over radio waves ~~wave~~ of one of the first frequency and the third frequency;

a second communication unit operable to transmit the data over radio waves ~~wave~~ of a corresponding frequency in the fourth frequency and the second frequency, when the control data is received over radio waves ~~wave~~ of one of the fourth frequency and the second frequency;

said first directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said first directional antenna being connected to said first communication unit, being located at one end part in a moving direction of said high-speed moving object, and facing outside; and

said second directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said second directional antenna being connected to said second communication unit, being located at the other end part in the moving direction of said high-speed moving object, and facing outside, and

wherein said control center includes:

a communication unit operable to transmit the data to and receive the data from said first and second base stations via the network; and

a selection unit operable to select one data of a plurality of data, when ~~there are~~, from among the received data, the plurality of data ~~having~~ have the same information.

48. (Currently Amended) A radio transmission system for a high-speed moving object, in which data is transmitted between said high-speed moving object that moves along a

predetermined path of movement and a control center that manages a condition of said high-speed moving object, said radio transmission system comprising

a plurality of first base station-stations and a plurality of second base station-stations, said first and second base stations being installed alternately along the predetermined [[a]] path of movement of said high-speed moving object,

wherein each said first base ~~station-stations~~ includes:

a first directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said first directional antenna being located at one end part in a longitudinal direction of a station platform where said first base station is equipped and facing a first directional antenna of said high-speed moving object;

a second directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said second directional antenna being located at the other end part in the longitudinal direction of the station platform where said first base station is equipped and facing a second directional antenna of said high-speed moving object; and

a first communication unit which is connected to said first directional antenna and said second directional antenna of said first base station, and operable to transmit control data indicating a transmission timing at predetermined time intervals via said first directional antenna of said first base station over radio waves ~~wave~~ of a first frequency and via said second directional antenna of said first base station over radio waves ~~wave~~ of a fourth frequency, and to receive data transmitted from said high-speed moving object over radio waves ~~wave~~ of the first frequency and radio waves ~~wave~~ of the fourth frequency and transmit the data to said control center via the network,

wherein said second base station includes:

a first directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said first directional antenna being located at one end part in a longitudinal direction of a station platform where said second base station is equipped and facing said first directional antenna of said high-speed moving object;

a second directional antenna operable to transmit and receive radio waves ~~wave~~ in a particular direction, said second directional antenna being located at the other end part in the longitudinal direction of the station platform where said second base station is equipped and facing said second directional antenna of said high-speed moving object; and

a second communication unit which is connected to said first directional antenna and said second directional antenna of said second base station, and operable to transmit control data indicating a transmission timing at predetermined time intervals via said first directional antenna of said second base station over radio waves ~~wave~~ of a third frequency and via said second directional antenna of said second base station over radio waves ~~wave~~ of a second frequency, and to receive data transmitted from said high-speed moving object over radio waves ~~wave~~ of the third frequency and radio waves ~~wave~~ of the second frequency and transmit the data to said control center via the network,

wherein said high-speed moving object includes:

a first communication unit operable to transmit the data over radio waves ~~wave~~ of the first frequency, when the control data is received over radio waves ~~wave~~ of the first frequency;

a second communication unit operable to transmit the data over radio waves ~~wave~~

of the second frequency, when the control data is received over radio waves ~~wave~~ of the second frequency;

a third communication unit operable to transmit the data over radio waves ~~wave~~ of the third frequency, when the control data is received over radio waves ~~wave~~ of the third frequency;

a fourth communication unit operable to transmit the data over radio waves ~~wave~~ of the fourth frequency, when the control data is received over radio waves ~~wave~~ of the fourth frequency;

a first directional antenna connected to said first communication unit and a third directional antenna connected to said third communication unit, each of which is operable to transmit and receive radio waves ~~wave~~ in a particular direction, located at one end part in a moving direction of said high-speed moving object, and facing outside; and

said second directional antenna connected to said second communication unit and said fourth directional antenna connected to said fourth communication unit, each of which is operable to transmit and receive radio waves ~~wave~~ in a particular direction, located at the other end part in the moving direction of said high-speed moving object, and facing outside, and

wherein said control center includes:

a communication unit operable to transmit the data to and receive the data from said first and second base stations via the network; and

a selection unit operable to select one data from a plurality of data, when ~~there are,~~ from among the received data, the plurality of data ~~having~~ have the same information.

49. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 48,

wherein said high-speed moving object includes a plurality of components ~~Units~~ which are connected to one another, each of said components ~~said Unit~~ having said first directional antenna, said second directional antenna, said third directional antenna, said fourth directional antenna, said first communication unit, said second communication unit, said third communication unit, and said fourth communication unit,

wherein said directional antenna located at an end part where one of said components ~~Unit~~ is connected to another one of said components ~~Unit~~ is used for communication between said ~~Units~~ components, and

wherein said directional antennae located at both end parts of a whole structure in which the plurality of the components ~~Units~~ are connected to one another are used for communication with said first and second base station ~~and said second base station~~ stations.

50. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 49, further comprising

a switching unit operable to select from the first to fourth frequencies a frequency of radio waves ~~wave~~ to be used for the communication between said components ~~Units~~ and to select from said first to fourth communication units a communication unit to be used for the communication between said ~~Units~~ components, based on the frequencies of the radio waves used for the communication with said first and second base station ~~and said second base station~~ stations, and

wherein said selected communication unit is operable to perform the communication between said ~~components~~ ~~Units~~ using radio waves ~~wave~~ of the selected frequency.

51. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 50,

wherein said switching unit is operable to select the frequency of the radio waves ~~wave~~ and said communication unit which are to be used for the communication between said ~~Units~~ components, according to a change of the frequencies of the radio waves and said communication units which are used for the communication with said first and second base stations, and to switch to the selected frequency and communication unit.

52. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 50,

wherein said selected communication unit is operable to attenuate transmission output of the radio ~~wave~~ waves.

53. (Currently Amended) The radio transmission system for the high-speed moving object according to Claim 49,

wherein two frequencies from the first to fourth frequencies have been previously assigned, as frequencies of the radio waves ~~wave~~ to be used for the communication between said ~~Units~~ components, to each of a plurality of said high-speed moving objects moving on an inbound line and an outbound line,

~~comprising wherein~~ a switching unit is operable to select a frequency of the radio waves
~~wave~~ to be used for the communication between said components ~~Units~~ from the assigned
frequencies and to select a communication unit to be used for the communication between said
components ~~Units~~ from said first to fourth communication ~~unit~~ units, based on the frequencies of
the radio waves used for the communication with said first and second base stations, and
wherein said selected communication unit is operable to perform the communication
between said components ~~Units~~ using radio waves ~~wave~~ of the selected frequency.

54. (Currently Amended) A high-speed moving object that moves along a
predetermined path of movement, said high-speed moving object comprising:

at least one image capturing unit operable to capture image data of the inside of a car in
said high-speed moving object;

a first communication unit operable to transmit the image data captured by said image
capturing unit over radio waves ~~wave~~ of a first frequency, when control data indicating a
transmission timing is received from any one of a plurality of base stations installed along the
predetermined [[a]] path of movement of said high-speed moving object over radio waves ~~wave~~
of the first frequency; and

a second communication unit operable to transmit the image data captured by said image
capturing unit over radio waves ~~wave~~ of a second frequency, when control data indicating a
transmission timing is received from any one of the plurality of base stations over radio waves
~~wave~~ of the second frequency.

55. (Currently Amended) A base station which relays image data transmitted between a high-speed moving object that moves along a predetermined path of movement and a control center that manages a condition of the high-speed moving object, said base station being one of:

a plurality of first base station-stations and a plurality of second base station-stations, said first and second base stations being installed alternately along the predetermined [[a]] path of movement of the high-speed moving object,

wherein each of the first base station-having stations includes a first communication unit operable to transmit control data indicating a transmission timing over radio waves ~~wave~~ of a first frequency at predetermined time intervals, and to receive the image data transmitted from said high-speed moving object over radio waves ~~wave~~ of the first frequency and transmit the image data to said control center via a network, [[;]] and

wherein each of the second base station-having stations includes a second communication unit operable to transmit control data indicating a transmission timing over radio waves ~~wave~~ of a second frequency at predetermined time intervals, and to receive the image data transmitted from said high-speed moving object over radio waves ~~wave~~ of the second frequency and transmit the image data to said control center via the network.

56. (Currently Amended) A control center which manages a condition of a high-speed moving object that moves along a predetermined path of movement, said control center comprising:

a communication unit operable to receive image data which is captured by [[a]] one of a

plurality of image capturing unit-units included in the high-speed moving object and transmitted from the high-speed moving object via a plurality of base stations installed along the predetermined [[a]] path of movement of the high-speed moving object;

a selection unit operable to select one image data from a plurality of image data, when ~~there are,~~ from among the image data, the plurality of image data ~~that have been captured at the same time~~ by the same one of the identical-image capturing unit-at-the-same-time-units; and

a display unit operable to display the received image data or the selected image data, for each of the image capturing ~~unit-units~~.

57. (Currently Amended) A radio transmission method for a high-speed moving object, in which image data is transmitted between the high-speed moving object that moves along a predetermined path of movement and a control center that manages a condition of the high-speed moving object via a plurality of first base station-stations and a plurality of second base station-stations, the first and second base stations being ~~that are~~ installed alternately along the predetermined [[a]] path of movement of the high-speed moving object, said radio transmission method comprising:

in the first base station

a first communication step of transmitting control data indicating a transmission timing over radio waves wave-of a first frequency at predetermined time intervals, and receiving the image data transmitted from the high-speed moving object over radio waves wave-of the first frequency and transmitting the image data to the control center via a network,

in the second base station

a second communication step of transmitting control data indicating a transmission timing over radio waves ~~wave~~ of a second frequency at predetermined time intervals, and receiving the image data transmitted from the high-speed moving object over radio waves ~~wave~~ of the second frequency and transmitting the image data to the control center via the network,

in the high-speed moving object

an image capturing step of capturing image data of the inside of a car in the high-speed moving object by ~~an~~ at least one of a plurality of image capturing ~~unit~~ units, ~~at least one of which is included in the high-speed moving object,~~

a first communication step of transmitting the image data captured by the image capturing unit over radio waves ~~wave~~ of the first frequency, when the control data is received from the first base station over radio waves ~~wave~~ of the first frequency, and

a second communication step of transmitting the image data captured by the image capturing unit over radio waves ~~wave~~ of the second frequency, when the control data is received from the second base station over radio waves ~~wave~~ of the second frequency, and

in the control center

a communication step of receiving the image data transmitted from the first and second base stations via the network,

a selection step of selecting one image data from a plurality of image data, when ~~there are,~~ from among the image data, the plurality of image data ~~that~~ have been captured at the same time by the same one of the ~~identical~~ image capturing ~~unit~~ units, and

a display step of displaying the received image data or the selected image data, for each of the image capturing ~~unit~~ units.

58. (Currently Amended) A construction method of a wireless communication area for constructing the wireless communication area where image data transmitted from a high-speed moving object that moves along a predetermined path of movement can be received, said construction method comprising

alternately arranging, along the predetermined ~~[[a]]~~ path of movement of the high-speed moving object, a plurality of first wireless communication ~~area~~ areas where image data transmitted over radio waves ~~wave~~ of a first frequency can be received and a plurality of second wireless communication ~~area~~ areas where image data transmitted over radio waves ~~wave~~ of a second frequency can be received, so that the areas are partly overlapped.

59. (Currently Amended) A computer readable medium having embodied thereon a computer program that is ~~program embodied on a computer readable medium and~~ executed by a computer for transmitting image data between a high-speed moving object that moves along a predetermined path of movement and a control center that manages a condition of the high-speed moving object via a plurality of first base ~~station~~ stations and a plurality of second base ~~station~~ stations, the first and second base stations being ~~that are~~ installed alternately along the predetermined ~~[[a]]~~ path of movement of the high-speed moving object, ~~said computer program comprising~~ the computer program causing the computer to execute a method comprising:

in the first base station

a first communication step of transmitting control data indicating a transmission timing over radio waves ~~wave~~ of a first frequency at predetermined time intervals, and receiving the

image data transmitted from the high-speed moving object over radio waves ~~wave~~ of the first frequency and transmitting the image data to the control center via a network,

in the second base station

a second communication step of transmitting control data indicating a transmission timing over radio waves ~~wave~~ of a second frequency at predetermined time intervals, and receiving the image data transmitted from the high-speed moving object over radio waves ~~wave~~ of the second frequency and transmitting the image data to the control center via the network,

in the high-speed moving object

an image capturing step of capturing image data of the inside of a car in the high-speed moving object by at least one of a plurality of an image capturing unit units, ~~at least one of which is included in the high-speed moving object,~~

a first communication step of transmitting the image data captured by the image capturing unit over radio waves ~~wave~~ of the first frequency, when the control data is received from the first base station over radio waves ~~wave~~ of the first frequency, and

a second communication step of transmitting the image data captured by the image capturing unit over radio waves ~~wave~~ of the second frequency, when the control data is received from the second base station over radio waves ~~wave~~ of the second frequency, and

in the control center

a communication step of receiving the image data transmitted from the first and second base stations via the network,

a selection step of selecting one image data from a plurality of image data, when ~~there are,~~ from among the image data, the plurality of image data ~~that~~ have been captured at the same

time by the same one of the identical image capturing ~~unit~~ at the same time units, and

a display step of displaying the received image data or the selected image data, for each of the image capturing ~~unit~~ units.